

PATENT ABSTRACTS OF JAPAN

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(54) FERRULE FOR OPTICAL CONNECTOR, AND ITS MANUFACTURING METHOD

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an inexpensive optical connector ferrule (or capillary), that can hold/fix the core fiber of an optical fiber stably and can also maintain concentricity accuracy and that can facilitate insertion of the optical fiber, and also to provide a method of manufacturing the ferrule with high productivity at low cost.

SOLUTION: In the ferrule (capillary), that is provided with a small-diameter part for inserting an optical fiber core fiber and that is intended for butt-connecting the end face of optical fibers, the small-diameter part consists of an optical fiber holding section 2 into a parallel hole shape, for which the bore is machined by a prescribed distance from the connecting tip end face, and an unmachined tapered section 3, which is expanded in diameter from the optical fiber holding section 2 to the rear end of the small-diameter part. In manufacturing the ferrule (capillary), a tapered blank is injection-molded, in which the small diameter part is expanded slightly from the connecting tip end face towards the rear end of the small-diameter part, and then the bore is machined by a prescribed distance from the connecting tip end face of the blank so obtained, thereby shaping the optical fiber holding section.

